An Ultra-Modern Coffee Table with Storage

DIY Plans to Build a Round Shelf Coffee Table

This is one of those really cool modern pieces that would look so sleek with just the right finish… Black lacquer, maybe? To make things inexpensive, the table can be constructed in MDF or plywood – whichever is preferred. The DIY plans to build a Round Shelf Coffee Table are really easy to construct and can take the living space from ho-hum to awesome in a flash!

Materials:

- 1-1/4″ pocket hole screws
- 3″ screws
- 1-1/4″ brad nails

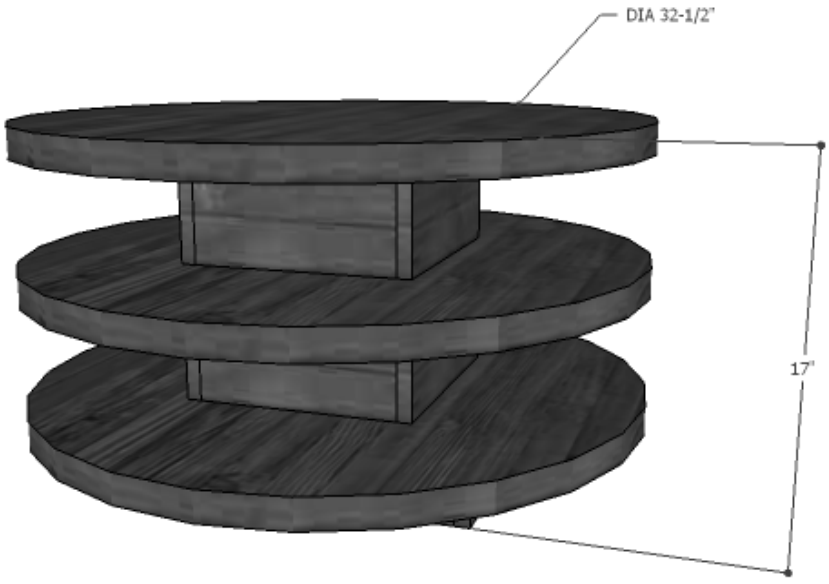
- 1″ Edge banding (if using plywood)
- 2″ Edge banding (if using plywood)
- Edge banding cutter (if using plywood)
- Dry Dex (if using MDF)
- Wood glue
- Sandpaper (100, 150, 220 grits)
- Finishing supplies (primer & paint, or stain, sealer)

Lumber:

- 3 sheets of 3/4″ plywood or MDF

Cut List:

- 6 – 32-1/2″ diameter circles – Rounds
- 4 – 3/4″ material at 5-1/2″ x 10-1/2″ – Upper & Middle Frames
- 4 – 3/4″ material at 5-1/2″ x 12″ – Upper & Middle Frames
- 3 – 3/4″ material at 1-1/2″ x 18-1/2″ – Lower Frame
- 2 – 3/4″ material at 1-1/2″ x 20″ – Lower Frame



Click on the drawings for a larger view!

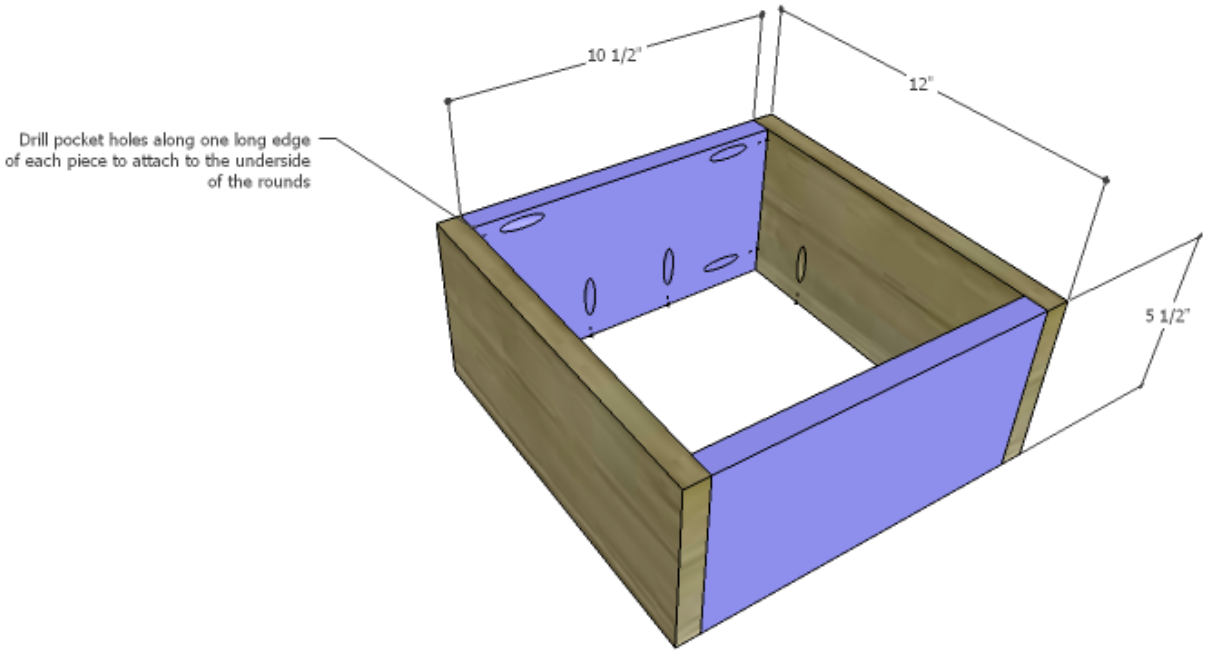
Step One

If using plywood, edge banding will be applied to the exposed edges of the 3/4″ plywood prior to assembly.

Cut the circles out of the 3/4″ material using a jigsaw or bandsaw. Laminate two circles together for each “shelf” by spreading glue on the face of one circle and positioning another circle on top. Wiggle the top piece to create suction, then secure the pieces together using 1-1/4″ brad nails.

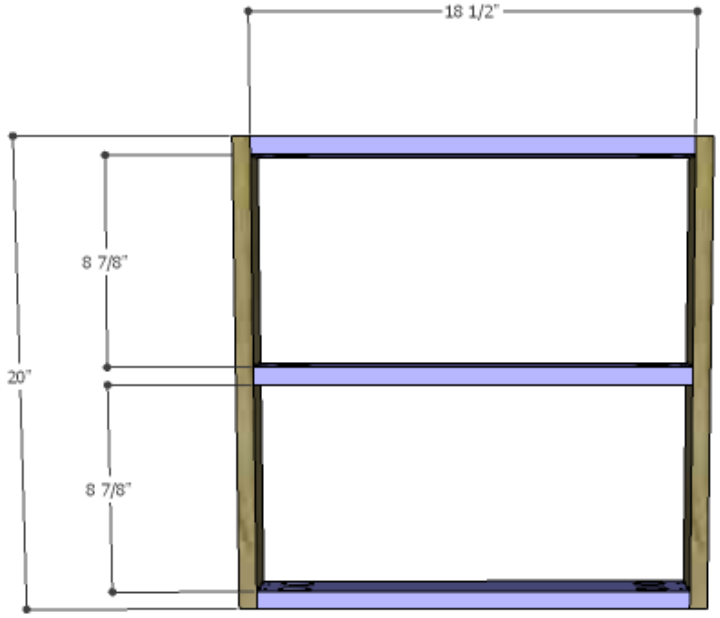
Step Two

Cut the pieces for the upper and middle frames. With the pocket hole jig set for 3/4″ material, drill pocket holes in each end of the shorter pieces, as well as one long edge of each piece. Assemble the frames using glue an 1-1/4″ pocket hole screws.



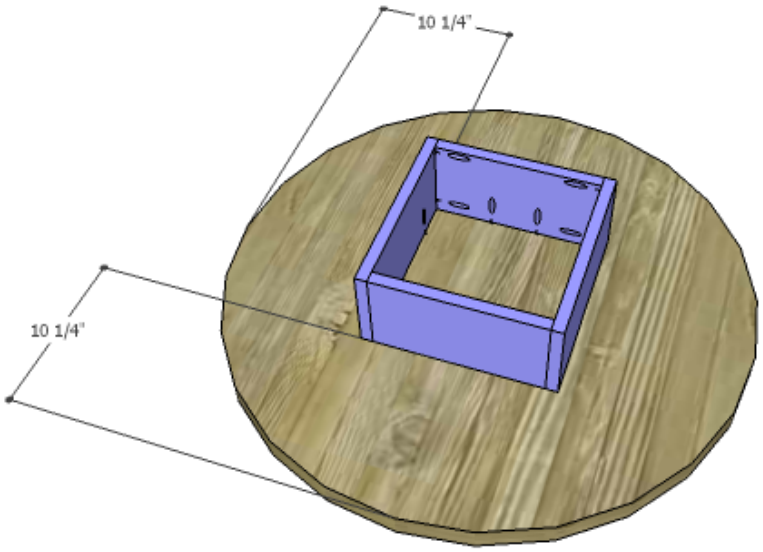
Step Three

Cut the pieces for the lower frame and drill pocket holes in each end of the shorter pieces as well as one long edge of each piece. Assemble the lower frame using glue and 1-1/4″ pocket hole screws.



Step Four

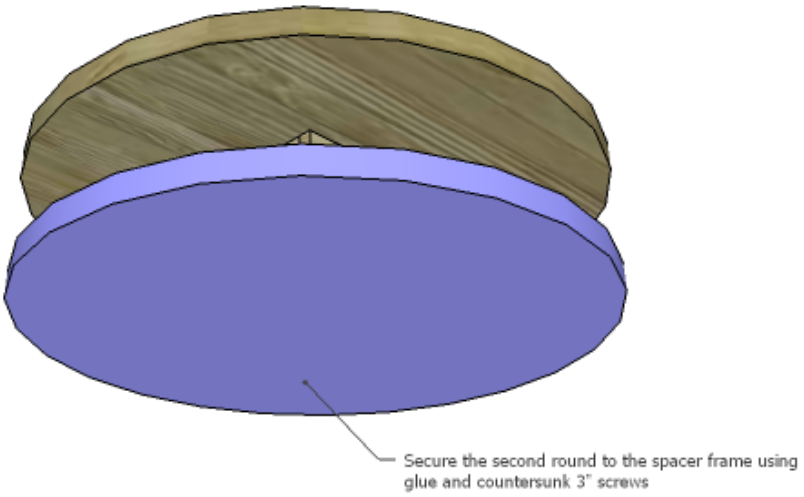
Lay the first round on a flat work surface. Position one of the 5-1/2″ frames on the round as indicated in the drawing. Secure the frame to the round using glue and 1-1/4″ pocket hole screws.

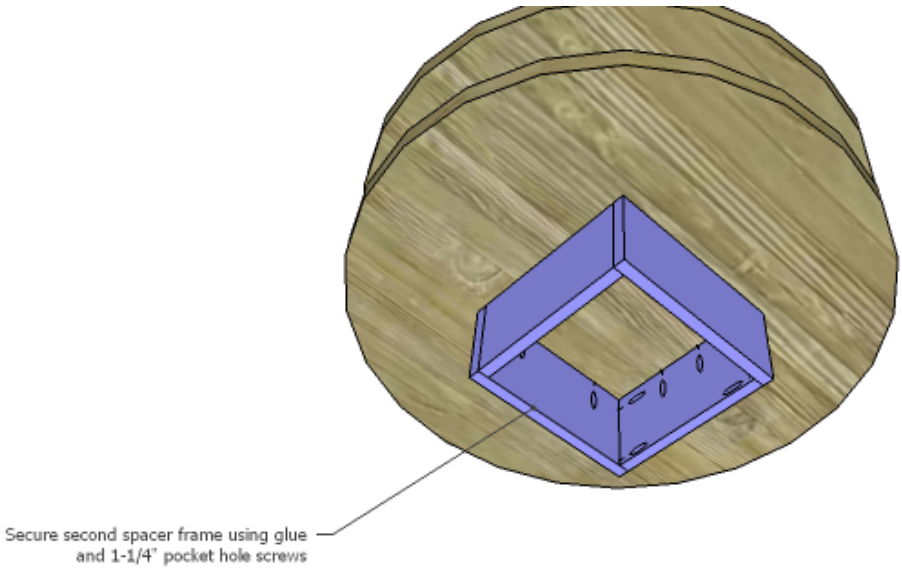


Step Five

Lay the second round on a flat surface and mark the position of the frame on the underside. This will make it easier to drive the screws in the right place – through the underside of the top into the frame above! Spread glue on the first frame, then position the second round on top of it as indicated in the drawing. Drive 3″ screws through the top into the frame locating the screws so that the pocket hole screws that will be driven through the next frame will not interfere.

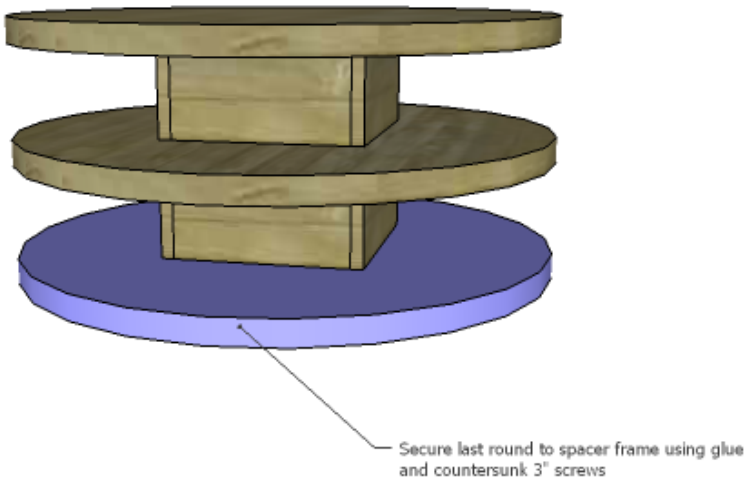
Position the second frame on the second round and secure in place using glue and 1-1/4″ pocket hole screws.





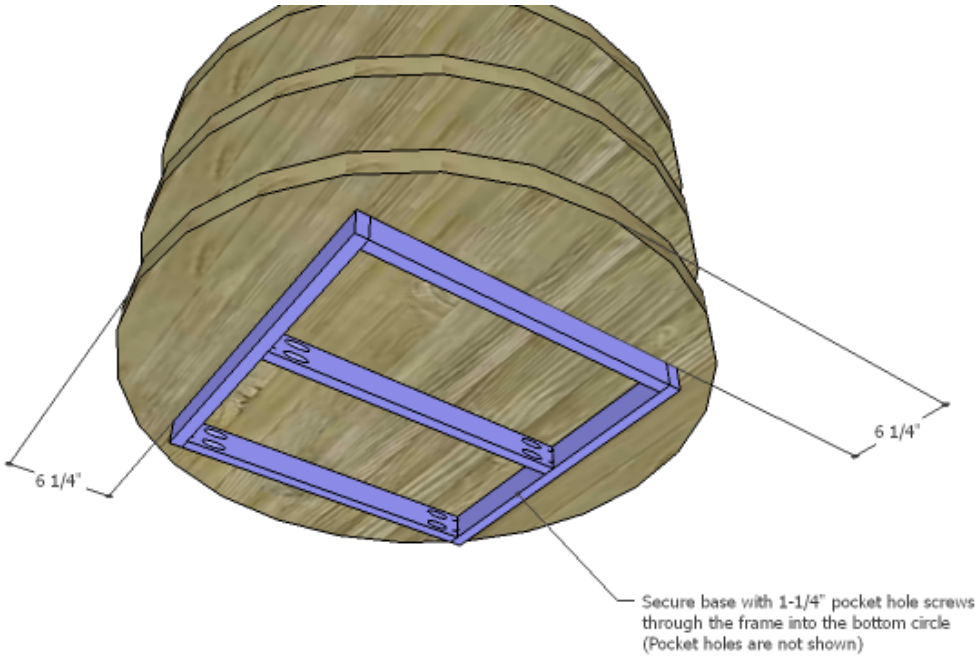
Step Six

Lay the third round on a flat surface and mark the position of the frame on the underside. Spread glue on the second frame, then position the third round on top of it as indicated in the drawing. Drive 3″ screws through the top into the frame locating the screws so that the pocket hole screws that will be driven through the next frame will not interfere.



Step Seven

Position the base frame on the underside of the third round as indicated in the drawing. Secure in place using glue and 1-1/4″ pocket hole screws.



If using MDF, fill the edges of the rounds using Dry Dex to hide the seams. Finish the table as desired.

This is such a neat piece and I love that it has so much storage! The table would also look great with a dark stain and a stenciled or glue-resist pattern on the top… Have any questions about the DIY plans to build a Round Shelf Coffee Table? Leave a comment below or contact me at cher {at} designsbystudioc {dot} com.